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ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

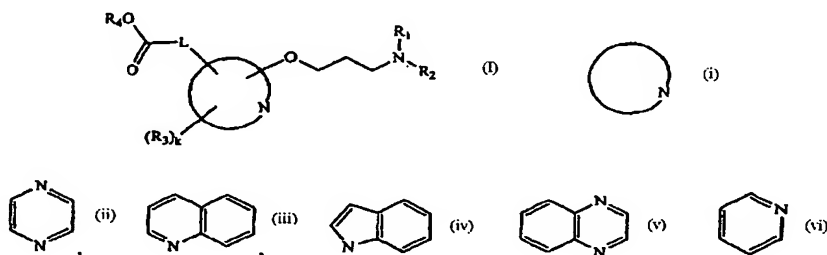
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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: N-CONTAINING HETEROAROMATIC COMPOUNDS AS MODULATORS OF PPARS AND METHODS OF  
TREATING METABOLIC DISORDERS



(57) Abstract: Compounds as modulators of peroxisome proliferator activated receptors, pharmaceutical compositions comprising the same, and methods of treating disease using the same are disclosed, (I) wherein (i) is a monocyclic or bicyclic aromatic moiety in which at least one of the ring atoms is N and selected from the group consisting of (ii), (iii), (iv), (v), and (vi); L is selected from the group consisting of a bond and CH<sub>2</sub>.

WO 2004/092130 A3

# INTERNATIONAL SEARCH REPORT

Application No

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D213/79 C07D213/80 C07D401/12 C07D403/12 C07D413/12  
C07D417/12 A61K31/423 A61K31/428 A61K31/454 A61K31/465  
A61K31/502 A61K31/506 A61P3/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, WPI Data, PAJ, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RICE L M ET AL: "Xanthoquininic Acid Derivatives" JOURNAL OF MEDICINAL CHEMISTRY, vol. 14, no. 4, 1971, pages 369-370, XP002296050 formula II on page 369, column 2 and compound 10 in table 1 on page 370	1
X	US 4 206 117 A (BOELL WALTER ET AL) 3 June 1980 (1980-06-03) claims 1,12; table 4; compound 19	1,120
X	WO 02/30895 A (BAYER AG) 18 April 2002 (2002-04-18) page 12, line 19 - page 13, line 1; claims 1-3,10,13-17,46-48,52,55,57; examples 159,234	1-124
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search

13 September 2004

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## INTERNATIONAL SEARCH REPORT

Application No

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/64888 A (MCGEEHAN GERARD M ; ZHANG LITAO (US); BOBKO MARK (US); JAYYOSI ZAID (U) 2 November 2000 (2000-11-02) claims 1,53-69	1-124
Y	WO 97/28149 A (AUWERX JOHAN ; BERGER JOEL P (US); MERCK & CO INC (US); MOLLER DAVID E) 7 August 1997 (1997-08-07) cited in the application page 7, line 17 - page 10, line 33; claims; example 12	1-124
Y	EP 1 067 109 A (ONO PHARMACEUTICAL CO) 10 January 2001 (2001-01-10) claims, examples 1(22), 1(82)-1(87), 1(91)-1(96), 1(100)-1(123), 1(125)-1(128), 2(22)-2(24)	1-124

# INTERNATIONAL SEARCH REPORT

application No.  
PCT/US2004/010737

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 97-119 are directed to a method of treatment of the human/animal body and claims 97 and 98 additionally appear to relate to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; It is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Information on patent family members

Application No

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